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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,581	08/05/2003		Robert Johnson	S0 00963/1/US	1446
28523	7590	07/28/2006		EXAMINER	
PFIZER II			KIM, YUNSOO		
		ENT, MS8260-1611			
EASTERN	POINT RO	DAD	ART UNIT	PAPER NUMBER	
GROTON,	CT 0634	.0	1644		
			DATE MAIL ED: 07/28/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/634,581	JOHNSON ET AL.					
Office Action Summary	Examiner	Art Unit					
	Yunsoo Kim	1644					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tim  rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	the mailing date of this communication.					
Status							
1)⊠ Responsive to communication(s) filed on 04 Ma	av 2006						
<u> </u>	action is non-final.						
		secution as to the merits is					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- C.C C.					
<u> </u>	a tha annliantian						
Claim(s) 1.3-5,7-12 and 29-32 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) ☐ Claim(s) is/are allowed.							
•	5)⊠ Claim(s) <u>1,3-5,7-12 and 29-32</u> is/are rejected.						
· _	') Claim(s) is/are objected to.  B) Claim(s) are subject to restriction and/or election requirement.						
o) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
<u> </u>	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)	_						
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	ite atent Application (PTO-152)					
Paper No(s)/Mail Date 6) Other:							

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## **DETAILED ACTION**

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/4/06 has been entered.

2. Claims 1, 3-5, 7-12 and 29-32 are pending.

Contrary to Applicants' assertion that claims 1-12 and 29-32 are pending in the response filed 5/4/06 (section 6), claims 2 and 6 also have been canceled.

- 3. The use of trademarks has been noted in this application (e.g. mPEG-MAL® on p. 3, line 21, mPEG2-MAL® on p. 3, line 22). Each letter of the trademarks should be capitalized wherever it appears and be accompanied by the generic terminology. Although the use of trademarks is permissible in patent application, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks.
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill-in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

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5. Claims 1, 3-5, 7-12 and 29-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Athwal et al. (WO01/94585, IDS reference, No.1, of record) in view of Relton (WO97/45140, of record) as is evidenced by the U.S. Pat. No. 6,171,586, newly cited, IDS reference, for the reasons set forth in the previous office action mailed 12/29/05.

Applicants' arguments filed on 5/4/06 have been fully considered but they are not persuasive.

Applicants' argue that it is not prima facie obvious to combine the teachings of the '585 publication into the '140 publication because the '140 publication is only suitable for non-modified antibodies such as antibodies without nonproteinaceous polymer.

However, the '140 publication teaches the stabilizing antibody formulation extends to a preparation of Fab fragements and bispecific antibodies (p. 4, line 26, in particular). As is evidenced in the '586 patent, the bispecific antibodies include cross-linked or heteroconjugated antibodies such as biotin or avidin and thionitrobenzoate (col. 16, lines 36-63, in particular) and the stabilizing antibody formulation is suitable for such bispecific antibodies.

Therefore, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to stabilize a modified antibody as taught by the '585 publication with a formulation comprising a buffer comprising acetate at pH 4-6.5 as taught by the '140 publication.

One of ordinary skill in the art at the time the invention was made would have been motivated to do so because the '140 publication teaches that a formulation comprising an acetate buffer at pH 4-6.5 adds stability to any antibodies including bispecific antibodies and prevents aggregation of antibody (p. 2-3, 6, in particular).

From the teachings of the references, one of ordinary skill in the art would have had a reasonable expectation of success in producing the claimed invention. Therefore, the invention as a whole was prima facie obvious to one of the ordinary in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

Thus, it is the examiner's position that the combination of reference teachings remains obvious.

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6. The following new grounds of rejections are necessitated by Applicants' addition of new claims and amendments to the claims filed on 5/4/06.

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- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claims 5 and 8 are rejected under 35 U.S.C. 112 second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 5 and 8 have no antecedent basis in base claim1. Claims 5 and 8 recite "succinimide moiety" but base claim 1 does not recite the limitation.
- 9. The following is a quotation of the first paragraph of 35 U.S.C. 112:

  The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out this invention.
- 10. Claims 1, 3-4, 7, 9-12, 29-31 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. This is a New Matter rejection.

The specification and the claims as originally filed do not provide a clear support for deleting the phrase "through a linker comprising a succinimide moiety". Applicant has pointed out [0026] for support however, the [0026] does not disclose that the modified antibody can be made without a linker comprising a succinimide moiety.

11. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA)

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1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

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A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

12. Claims 1, 3-5, 7-12 and 29-32 are provisionally rejected under the judicially created doctrine of double patenting over pending claims 39-50 and 54-57 of copending Application No. 10/634,199. This is a <u>provisional</u> double patenting rejection since the conflicting claims have not yet been patented.

Although the conflicting claims are not identical, they are not patentably distinct from each other because both sets of claims encompass a modified antibody formulation in a buffer at pH about 4-6.5 and the antibody concentration is at about 300mg/ml. The modified antibody comprises an antibody fragment and nonproteinaceous polymer covalently linked to the antibody fragment through a linker comprising a succinimide moiety. The nonproteinaceous polymer includes polyethyleneglycol polymers. In addition, the specifications of both application teaches the CDP870 as a preferred antibody, preferred buffer being acetate in presence of 125mM of NaCl (Example 1, in '199 application, in particular).

Claims 1, 3-5, 7-12 and 29-32 directed to an invention not patentably distinct from claims 39-50 and 54-57 of commonly assigned 10/634,199. Although the conflicting claims are not identical, they are not patentably distinct from each other because both sets of claims encompass a modified antibody formulation in a buffer at pH about 4-6.5 and the antibody concentration is at about 300mg/ml. The modified antibody comprises an antibody fragment and nonproteinaceous polymer covalently linked to the antibody fragment through a linker comprising a succinimide moiety. The nonproteinaceous polymer includes polyethyleneglycol polymers. In addition, the specifications of both application teaches the CDP870 as a preferred antibody, preferred buffer being acetate in presence of 125mM of NaCl (Example 1, in '199 application, in particular).

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14. The U.S. Patent and Trademark Office normally will not institute an interference between applications or a patent and an application of common ownership (see MPEP Chapter 2300). Commonly assigned copending applications 10/634,199, discussed above, would form the basis for a rejection of the noted claims under 35 U.S.C. 103(a) if the commonly assigned case qualifies as prior art under 35 U.S.C. 102(e), (f) or (g) and the conflicting inventions were not commonly owned at the time the invention in this application was made. In order for the examiner to resolve this issue, the assignee can, under 35 U.S.C. 103(c) and 37 CFR 1.78(c), either show that the conflicting inventions were commonly owned at the time the invention in this application was made, or name the prior inventor of the conflicting subject matter.

A showing that the inventions were commonly owned at the time the invention in this application was made will preclude a rejection under 35 U.S.C. 103(a) based upon the commonly assigned case as a reference under 35 U.S.C. 102(f) or (g), or 35 U.S.C. 102(e) for applications pending on or after December 10, 2004.

- 15. No claim is allowable.
- 16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yunsoo Kim whose telephone number is 571-272-3176. The examiner can normally be reached on Monday thru Friday 8:30 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on 571-272-0841. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Yunsoo Kim

Patent Examiner

Technology Center 1600

July 11, 2006

CHRISTINA CHAN
SUPERVISORY PATENT EXAMINER

**TECHNOLOGY CENTER 1600**